

RF Exposure for Mobile use

No. : 25LE0018-YK-5

Applicant : BUFFALO Inc
Type of Equipment : High Speed wireless Router
Model No. : WHR-HP-G54
FCC ID : FDI-0910577-0

BUFFALO Inc declares that Model : High Speed wireless Router complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "WHR-HP-G54" has 380.19 mW of conducted Peak Output power and 1513.56 mW of EIRP. The Following calculation is the reference data for 20cm distance for mobile use.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "WHR-HP-G54" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 380.19 mW (Maximum peak output power)
G = 3.98 Numerical Antenna gain; equal 6.00 dBi
r = 20.0 cm

For: WHR-HP-G54

$$S = 0.30111 \text{ mW/cm}^2$$